

SI Reassessment 5/18/01
HRS SCORESHEETS
*****CONFIDENTIAL*****
*****PREDECISIONAL DOCUMENT*****

SUMMARY SCORESHEET
FOR COMPUTING PROJECTED HRS SCORE

SITE NAME: KUSTOM FIT HI-TECH SEATING (SHELLMAR PRODUCTS CORPORATION)

CITY: SOUTH GATE COUNTY: LOS ANGELES

EPA ID#: CAD983576190 EVALUATOR: A. T. VALMIDIANO

PROGRAM ACCOUNT#: V999252-03-0 DATE: May 18, 2001

LAT/LONG: Lat 33° 56' 55.5" Long 118° 10' 50.4" T/R/S: 2S/12W

THIS SCORESHEET IS FOR A PA: _____ SI: _____ OTHER: SI-2

RCRA STATUS (check all that apply): STATE SUPERFUND STATUS:

☒ Generator ☐ DTSC Annual Work Plan

☐ Small Quantity Generator (formerly BEP) (Date) _____

☐ Transporter ☐ WQARF (Date): _____

☐ TSDF ☐ No State Superfund

☐ Not Listed in RCRA Database as of Status (Date): _____

☐ Date of Printout:

| | S Pathway | S ² Pathway |
|--|-----------|------------------------|
| Groundwater Migration Pathway Score (S _{gw}) | 100 | 10,000 |
| Surface Water Migration Pathway Score (S _{sw}) | * | * |
| Soil Exposure Pathway Score (S _s) | * | * |
| Air Migration Pathway Score (S _a) | * | * |
| $(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2)$ | | 10,000 |
| $(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2) / 4$ | | 2,500 |
| Square Root of $(S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_{am}^2) / 4$ | | 50 |

* Pathway evaluated, but not assigned a score (explain):

- * Surface Water - Rainwater runs into storm drains and then into the Los Angeles River. There are no drinking water intakes; commercial fishing, and sensitive receptors along this path.
- * Soil Exposure - The site is in an industrial area, is covered with buildings and paved parking lots and driveways, fenced, and there are no daycares, and schools within 200 feet.
- * Air Migration - The site is in an industrial area, is covered with buildings and paved parking lots and driveways, fenced, and there are no daycares, and schools within 200 feet.

GROUNDWATER MIGRATION PATHWAY SCORESHEET

Kustom Fit Hi-Tech Seating (Shellmar Products Corporation)

| Likelihood of Release | Maximum Value | Score | Rationale | Data Quality |
|---|---------------|----------|-----------|--------------|
| 1. Observed Release | 550 | 0 | 1 | |
| 2. Potential to Release | | | | |
| 2a. Containment | 10 | 10 | 2 | E |
| 2b. Net Precipitation Value | 10 | 1 | 3 | H |
| 2c. Depth to Aquifer Value | 5 | 3 | 4 | E |
| 2d. Travel Time | 35 | 25 | 5 | E |
| 2e. Potential to Release | 500 | 290 | | |
| [lines 2a x (2b+2c+2d)] | | | | |
| 3. Likelihood of Release (line 1 or 2e) | 550 | 290 | | |
| Waste Characteristics | | | | |
| 4. Toxicity/ Mobility | (a) | 100 | 2 | H |
| 5. Hazardous Waste Quantity | (a) | 10 | 3 | E |
| 6. Waste Characteristics | 100 | 6 | | |
| (Lines 4 x 5, then use Table 2-7) | | | | |
| Targets | | | | |
| 7. Nearest Well Value | 50 | 20 | 4 | E |
| 8. Population | | | | |
| 8a. Level I Concentrations | (b, c) | | | |
| 8b. Level II Concentrations | (b, c) | | | |
| 8c. Potential Contamination | (b, c) | 10,104.8 | 5 | E |
| 8d. Population (lines 8a+8b+8c) | (b) | 10,104.8 | | |
| 9. Resources | 5 | 5 | 6 | H |
| 10. Wellhead Protection Area | 20 | 0 | | H |
| 11. Targets (lines 7+8d+9+10) | (b) | 10,129.8 | | |

Aquifer Score

12. Aquifer Score [(lines 3x6x11)/82500 100
Subject to a Maximum of 100]

100 -

GROUNDWATER MIGRATION PATHWAY SCORE

13. Pathway Score (Sgw) 100
(Highest score from line 12 for all aquifers
evaluated, subject to a maximum of 100)

100

- (a) Maximum value applies to waste characteristics category.
(b) Maximum value not applicable.
(c) Value computed on attached calculation sheet.

AQUIFERS EVALUATED: Jefferson, Lynwood, Silverado, Sunnyside

GROUNDWATER PATHWAY CALCULATIONS FOR POPULATION

| Well Identifier | Contaminant Detected | Contaminant Concentration (Note Units) | Benchmark (Note Units) | Apportioned Level Multiplier* (A) | Apportioned Population Well Serves (B) | Actual Contamination Factor (AxB) |
|-----------------------------|----------------------|--|------------------------|-----------------------------------|--|-----------------------------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| SUM LEVEL I CONCENTRATIONS | | | | | | |
| SUM LEVEL II CONCENTRATIONS | | | | | | |

* Level Multipliers:

Level I = 10.

Level II = 1.

POTENTIAL CONTAMINATION

| Distance Ring (Miles) | Number of Wells Within Distance Ring | Population Served by Wells Within Distance Ring | Distance Weighted Population Values (Table 3-12) |
|---------------------------------|--------------------------------------|---|--|
| 0.00 to 0.25 | 5 | 54,830.4 | 52,137 |
| >0.25 to 0.50 | 0 | 0 | 0 |
| >0.50 to 1.00 | 3 | 23,812.6 | 5,224 |
| >1.00 to 2.00 | 10 | 57,537.4 | 9,385 |
| >2.00 to 3.00 | 32 | 173,678.7 | 21,222 |
| >3.00 to 4.00 | 30 | 119,379.1 | 13,080 |
| POTENTIAL CONTAMINATION: SUM/10 | | | 101,048/10 |
| | | | 10,104.8 |

AQUIFERS EVALUATED Jefferson, Lynwood, Silverado, Sunnyside

HRS Rationale

Kustom Fit Hi-Tech Seating (Shellmar Products Corporation)

Groundwater Migration Pathway

1) Observed Release

An observed release could not be established at this time because of a lack of sampling for groundwater. Review of existing files did not reveal any hazardous substances being release or injected to groundwater beneath the Site. Hence, a score of zero (0) is being assigned to "Observed Release".

2) Potential to Release

Since an observed release cannot be established, an evaluation of potential to release of hazardous substances into groundwater is being projected. Under this category, containment, net precipitation value, depth to aquifer, and travel time are scored relative to the hydrogeologic features within the two-mile peripheral radius of the Site. The following describes the general subsurface hydrogeology at the Site.

The Site is located in the Central Basin of the Coastal Plain of Los Angeles County. The Central Basin is divided into three regions: the Los Angeles and Montebello Forebay areas, and the Central Basin Pressure Area. The Site is located in the Central Basin Pressure Area and is underlain by approximately 1,200 feet of unconsolidated sediments that are divided into Recent Alluvium, the Lakewood Formation, and the San Pedro Formation. Aquifers within the Recent Alluvium and Lakewood Formation comprise the Upper Group aquifers. Aquifers in the San Pedro Formation comprise the Lower Group aquifers.

Surficial deposits on site are represented by the Recent Alluvium, which ranges from 10 to 180 feet thick. Aquifers in the Recent Alluvium include the Semiperched Aquifer and the Gaspur Aquifer. The Gaspur Aquifer is the first aquifer beneath the Site and occurs at approximately 80 feet below ground surface (bgs). The Gaspur Aquifer consists of sands and gravel that becomes coarser with depth.

Underlying the Recent Alluvium is the Lakewood Formation. Aquifers in the Lakewood Formation include the Exposition Aquifer and the Gage Aquifer. The Exposition Aquifer occurs beneath the Site between 70 feet and 125 feet bgs. This aquifer is composed of coarse gravel, coarse to fine sand, silt, and clay. The Gage Aquifer occurs beneath the Site between 180 feet and 265 feet bgs. This aquifer consists of fine sand and gravel.

Underlying the Lakewood Formation is the San Pedro Formation. The San Pedro Formation contains five aquifers: Hollydale, Jefferson, Lynwood, Silverado, and Sunnyside. The Hollydale Aquifer is thought to occur beneath the Site at approximately 310 feet bgs. Because of its fine grained texture, this aquifer does not yield large quantities of groundwater to wells. The Jefferson Aquifer is thought to occur beneath the Site at between 390 feet and 450 feet bgs. This aquifer consists primarily of sand with minor amount of gravel and clay lenses. Because of its fine grained texture, this aquifer does not yield large

quantities of groundwater. The Lynwood Aquifer is thought to occur beneath the Site between 475 feet and 525 feet bgs. This aquifer consists of yellow, brown and red coarse gravel, sand, silt, and clays. The Lynwood Aquifer is an important source of drinking water. The Silverado Aquifer is thought to occur beneath the Site between 580 feet and 600 feet bgs. This aquifer consists of yellow, brown, blue, and gray gravel, sand, silt, and clays. The Silverado Aquifer is one of the most important producers of drinking water in the area. The Sunnyside Aquifer is thought to first occur beneath the Site at approximately 1,060 feet bgs. This aquifer is composed of coarse grained sands and gravel with interbeds of sandy clay and clay.

A score of ten (10) is assigned for containment factor because of potential hydraulic continuity of the aquifers to the surface and the absence of an engineered liner.

Sources: U.S. Environmental Protection Agency, 40 CFR Part 300, Hazard Ranking System Final Rule, Federal Register, Volume 55, Number 241, December 14, 1990.

State of California Department of Water Resources, Bulletin No. 104, Planned Utilization of The Ground Water Basins of the Coastal Plain of Los Angeles County, Appendix A, Ground Water Geology, June, 1961.

Bechtel Environmental, Inc., Letter to Lisa Nelson, U. S. Environmental Protection Agency, Region IX, December 16, 1993.

3) Net Precipitation Value:

A value of one (1) is assigned. The Site is situated along the central region of the County of Los Angeles as shown in Figure 3-2 of the HRS.

Sources: U.S. Environmental Protection Agency, 40 CFR Part 300, Hazard Ranking System Final Rule, Federal Register, Volume 55, Number 241, December 14, 1990.

4) Depth to Aquifer Value:

Eighteen (18) local water purveyors owned groundwater wells located within the 4-mile radius of the Site. All the existing active groundwater wells draw water from the Jefferson, Lynwood, Silverado, and Sunnyside aquifers. As has been reported, these aquifers are in hydraulic continuity with the surface and useable groundwater is first encountered at approximately 87 feet bgs. A value of three(3) is assigned because the aquifer of concern is within the category range of 25 to 250 feet, as shown in Table 3-5, Depth to Aquifer Factor Values.

Sources: State of California Department of Water Resources, Bulletin # 104, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, June 1961.

Faxed Document from Gemarie Go, Student Intern, Geological Division, Los Angeles County Department of Public Works, to Alberto Valmidiano, DTSC, April 18, 2001.

5) Travel Time:

Geologic feature of the Coastal Plain is characterized by unconsolidated sediments or alluvia consisting

of stream deposits of gravel, sand, silt and clay. From table 3-6, Hydraulic Conductivity of Geologic Materials, a value of 10^{-4} centimeter per second (cm/s) is assigned. Based on Well Drill Logs information, the area close to the Site is characterized by variable sand/ sandy clay/gravel layers. A value of 25 is assigned for "Travel Time Factor Values" as shown in Table 3-7.

Sources: State of California Department of Water Resources, Bulletin # 104, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, June 19961.

Faxed Document from Gemarie Go, Student Intern, Geological Division, Los Angeles County Department of Public Works, to Alberto Valmidiano, DTSC, April 18, 2001.

6) Toxicity/Mobility:

Based on the Limited Subsurface Soil Investigation Report by Dames & Moore, 1,1,1-TCA and PCE have been detected in on site soils. Additionally, copies of hazardous business plan, hazardous materials inventory chemical description, and material safety data sheet revealed the following hazardous substances were associated with the materials used in the production process at the Kustom Fit Hi-Tech Seating facility:

| | |
|------------------------------------|------------------------------|
| 1,1,1-TCA | Toluene |
| Hydroflouzirconic acid | Flouzirconic acid |
| Phosphoric acid | Monosodium phosphate |
| Sodium chlorate | Alkylaryl polyether |
| Phenyl isocyanate | Diphenylmethane diisocyanate |
| Polymethylene polyphenyl isocanate | Calcium carbonate |
| Carbon black | Propylene |
| Dichloroethane | Triglycidyl isocyanurate |
| N-Butanol | Ethylene glycol mono ether |
| Aromatic hydrocarbons | Iron phosphate |
| Sodium molybdate | Ethane |

From Appendix B-1 (Hazardous Substances Factor Values, Tables for Non-Radioactive Hazardous Substances, Superfund Chemical Data Matrix, Version: July 95), the following toxicity/mobility factor values for the above contaminants:

Table of Combined Toxicity/Mobility Factors

| Contaminants | Toxicity (T) | Mobility (M) | TxM |
|-----------------|--------------|--------------|-----|
| 1,1,1-TCA | 1 | 1.0 | 1 |
| PCE | 100 | 1.0 | 100 |
| Phosphoric acid | 100 | 1.0 | 100 |
| Butanol | 10 | 1.0 | 10 |

Sources: U. S. EPA Superfund Chemical Data Matrix, Version: July, 1995.

Dames & Moore, Limited Subsurface Soil Investigation Report, 8990 Atlantic Avenue, South Gate, California, for Kustom Fit, October 12, 1992.

Site Reconnaissance Interview and Observations Report, Alberto Valmidiano, DTSC,
April 16, 2001.

7) Hazardous Waste Quantity:

A hazardous waste quantity factor value of 10 (default) is assigned.

TABLE FOR HAZARDOUS WASTE QUANTITY

| <u>Tier</u> | <u>Hazardous Substance</u> | <u>Area (Sq. Ft.)</u> | <u>Hazardous Waste Quantity Value</u> |
|-------------|----------------------------|-----------------------|---------------------------------------|
| D | Contaminated Soil | (1.5 acres) 65,337 | 1.92 |

The area of PCE and 1,1,1-TCA contaminated soil on site is not well defined and historic site operations are not well documented, calculations of the Hazardous Waste Quantity factor value is based on known areas of hazardous substance use by the current site operator (truck service area) and suspected areas of historic site operator hazardous substance use (above ground solvent storage tanks) within the backyard area at the eastern section of the Site. A hazardous waste quantity value of 1.92 is calculated from HRS Table 2-5, using Tier D equation. From Table 2-6, a hazardous waste quantity factor value of 1.92 equals 1 which then defaults to 10 as no soil removal has taken place.

Sources: U.S. Environmental Protection Agency, 40 CFR Part 300, Hazard Ranking System
Final Rule, Federal Register, Volume 55, Number 241, December 14, 1990

Dames & Moore, Limited Subsurface Soil Investigation Report, 8990 Atlantic Avenue,
South Gate, California, for Kustom Fit, October 12, 1992.

8) Nearest Wells:

A target factor value of 20 is assigned for the nearest well location, using Table 3-11. Groundwater beneath the site is a major source of drinking water in the area. There are drinking water wells within the 1/4-mile radius of the Site.

Source: U.S. Environmental Protection Agency, 40 CFR Part 300, Hazard Ranking System
Final Rule, Federal Register, Volume 55, Number 241, December 14, 1990

9) Potential Contamination (PC):

A value of 10,104.8 is assigned for PC, using Table 3-12 (see Chart 6-2 below) and the PC equation. The following discussion describes the rationale for assigning PC:

CHART 6-1
Kustom Fit Hi-Tech Seating
(Shellmar Products Corporation)
Well Data and Populations Served

9.1 City of South Gate Water Department

| <u>No. of Wells</u> | <u>% Groundwater</u> | <u>Population</u> |
|---------------------|----------------------|-------------------|
|---------------------|----------------------|-------------------|

| w/in 4-mile radius | to Total | Served |
|---------------------------|-----------------|---------------|
| 6 | 100 | 88,836 |

The City of South Gate Water Department (SGWD) operates a 100% ground water supply system that serves approximately 88,836 people. There are 12 wells in the system. Wells 13, 14, 18, 19, 25, and 26 are active. Wells 2, 7, 22B, 23, 24, and 27 are inactive due to contamination or mechanical reasons. None of the wells contribute more than 40% of ground water to the system.

Population apportionment/well = $(88,836/6) = 14,806$ people.

SGWD wells draw water from the Lynwood, Silverado, and the Sunnyside aquifers.

9.2 City of Huntington Park Water Department

| No. of Wells w/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 5 | 84 | - 46,062 |

The City of Huntington Park Water Department (HPWD) operates a blended water supply system that serves 64,487 people. HPWD operates 6 wells and purchase 16 % of its water from the Metropolitan Water District (MWD). None of their wells provide more than 40 % groundwater to the system. One of the wells is located outside the 4-mile peripheral radius of the Site.

Population apportionment/well (including 1 for surface intake) = $64,487/7 = 9,212.4$ people.

HPWD wells draw water from the Silverado and Sunnyside aquifers.

9.3 Tract 349 Mutual Water Company

| No. of Wells w/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 2 | 100 | 7,500 |

The Tract 349 Mutual Water Company (Tract 349MWC) operates a 100% groundwater supply system that serves approximately 7,500 people. There are 3 wells in the system (Well 01, Well 02, and Well 03). Well 01 has been destroyed. Well 03 contributes 84% to the system.

Population apportionment for Well 02 = $7,500 (.16) = 1,200$ people.

Population apportionment for Well 03 = $7,500 (.84) = 6,300$ people.

T-349 MWC wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.4 Southern California Water Company, Bell, Bell Gardens

| No. of Wells w/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 8 | 75 | 24,359 |

The Southern California Water Company, Bell, and Bell Gardens (SCWC-B) operate a blended water supply system that serves 24,359 people. SCWC-B operates 8 active and standby wells. SCWC-B purchased 25% of its water from the MWD. None of their wells provide more than 40% groundwater to

the system.

Population apportionment/well (including 1 for surface intake) = $24,359/9 = 2,706.6$ people.
SCWC-B wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.5 City of Compton Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 2 | 50% | 9,285.8 |

The City of Compton Water Department (CWD) operates a blended water supply system that serves approximately 65,000 people. CWD operates 5 active and 2 standby wells and purchase 50% water from the (MWD). None of the wells contribute more than 40% of ground water to the system. Five of the wells are located outside the 4-mile radius of the Site.

Population apportionment/well = $65,000 \times 0.5 = 32,500/7 = 4,642.9$ people.
CWD wells draw water from the Lynwood, Jefferson, and Silverado aquifers.

9.6 Tract 180 Mutual Water Company

| No. of Wells w/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 2 | 100 | 14,000 |

Tract 80 Mutual Water Company (Tract 180 MWC) operates a 100% ground water supply system that serves approximately 14,000 people. Tract 180 MWC operates 2 wells. Each of the wells provide 50% groundwater to the system.

Population apportionment/well = $15,000/2 = 7,000$ people.
Tract 180 wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.7 City of Paramount Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 1 | 20% | 5,520 |

The City of Paramount Water Department (PWD) operates a blended water supply system that serves approximately 55,200 people. PWD operates 2 active wells and surface intake connection which contribute 80% surface water from MWD to the system. Mr. Dela Rosa indicated that none of their wells provide more than 40% groundwater to the system. Only 1 of the wells is located inside the 4-mile radius of the Site.

Population apportionment/well = $55,200 \times 0.2 = 11,040/2 = 5,520$ people.
PWD wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.8 City of Downey Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 18 | 100 | 84,000.6 |

The City of Downey Water Department (DWD) operates a 100 % groundwater supply system that serves approximately 98,000 people. DWD owns 23 wells, 21 are active and 2 inactive, and none of the wells provide more than 40 % groundwater to the system. Three of the active wells are located outside the 4-mile radius of the Site.

Population apportionment/well = $98,000/21 = 4,666.7$ people.
DWD wells draw water from the Lynwood, Jefferson, and Silverado aquifers.

9.9 City of Lynwood Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 7 | 81 | 59,051.3 |

The City of Lynwood Water Department (LWD) operates a blended water supply system that serves 67,487 people. LWD operates 7 active wells and surface intake connection which contributes 19% of water from the MWD to the system. None of the wells contribute more than 40% groundwater to the system.

Population apportionment/well (including 1 for surface intake) = $67,487/8 = 8,435.9$ people.
LWD wells draw water from the Lynwood, Jefferson, and Silverado aquifers.

9.10 Maywood Mutual Water Company # 1

| No. of Wells w/in 4-mile ring | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 2 | 67 | 3,333.4 |

The Maywood Mutual Water Company #1 (MMWC#1) operates a blended water system that serves approximately 5,000 people. MMWC#1 has 2 wells and purchased 33% of the water supply from the MWD. MMWC#1 reports that none of their wells provide more than 40% groundwater to the system.

Population apportionment/well (including surface intake) = $5,000/3 = 1,666.7$ people.
MMWC#1 wells draw water from the Silverado aquifer.

9.11 Maywood Mutual Water Company #2

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|--|-----------------------------------|------------------------------|
| 2 | 20 | 1,340 |

The Maywood Mutual Water Company # 2 (MMWC#2) operates a blended water system that serves approximately 6,700 people. MMWC#2 operates 2 active wells and purchased 80% of the water supply from MWD. MMWC#2 reports that none of their wells provide more than 40% groundwater to the system.

Population apportionment/well = $6,700 \times 0.2 = 1,340/2 = 670$ people.

MMWC#2 wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.12 Maywood Mutual Water Company #3 (MMWC#3)

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|------------------------------------|---------------------------|----------------------|
| 3 | 50 | 4,750 |

The Maywood Mutual Water Company #3 (MMWC#3) operates a water system that serves approximately 9,500 people. MMWC#3 operates 3 active wells during the summer months (May to September) and purchase MWD water during the winter months (October to April). MMWC#3 reports that the system does not blend groundwater and surface intake water, and the tanks are drained every couple of months to fill fresh chlorinated water. MMWC#3 reports that none of their wells provide more than 40% groundwater to the system.

Population apportionment/well = $9500 \times 0.5 = 4,750/3 = 1,583.3$ people.

MMWC#3 wells draw water from the Lynwood, Silverado, and the Sunnyside aquifers.

9.13 California Water Services Company - ELA

| No. of Wells w/in 4-mile radius | % Groundwater to Total | Population Served |
|------------------------------------|---------------------------|----------------------|
| 7 | 30 | 16,011.3 |

The California Water Services Company (CWSC-ELA) operates a blended water system that serves approximately 153,010 people. Seventy percent of the water supply is purchased from the MWD. There are 19 wells in the system. CWSC-ELA reported none of the wells contribute more than 40% ground water. Twelve of the wells are located outside the 4-mile radius of the Site.

Population Apportionment/well = $[153,010 (0.30)/19] = 2,415.9$ people.

CWSC-ELA wells draw water from the Jefferson, Lynwood, Silverado, and the Sunnyside aquifers

9.14 Walnut Park Mutual Water Company

| No. of Wells w/in 4-mile ring | % Groundwater to Total | Population Served |
|----------------------------------|---------------------------|----------------------|
| 2 | 60 | 12,000 |

The Walnut Park Mutual Water Company (WPMWC) operates a blended water supply system that serves approximately 18,000 people. The water supplied by WPMWC is 60% groundwater and 40% surface water from the MWD. WPMWC owns 4 wells. Two of the wells are inactive for the last 6

years.

Population apportionment/well (including surface intake) = $18,000/3 = 6,000$ people.
WPMWC wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.15 City of Vernon Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|------------------------------------|---------------------------|----------------------|
| 4 | 85 | 18,000 |

The City of Vernon Water Department (VWD) operates a blended water supply system that serves approximately 45,000 people. There are 14 wells in the system, of which nine (9) are active, and the rest inactive or have not been used for the last ten years. Water supplied by VWD is 85% groundwater and 15% purchased water from the Metropolitan Water District. VWD reports that none of their wells contributes more than 40% groundwater. Five of the wells are located outside the 4-mile radius of the Site.

Population Apportionment/well (including 1 surface intake) = $45,000/10 = 4,500$ people.
VWD wells draw water from the Silverado and Sunnyside aquifers.

9.16 Southern California Water Company, Florence/Graham

| No. of Wells w/in 4-mile ring | % Groundwater to Total | Population Served |
|----------------------------------|---------------------------|----------------------|
| 6 | 60 | 28,328.4 |

The Southern California Water Company, Florence/Graham (SCWC-F) operates a blended water supply system that serves 33,050 people. There are 6 active wells. Water supplied by SCWS-F is 60% groundwater and 40% purchased from the MWD. SCWC-F reports that none of their wells contributes more than 40% groundwater.

Population apportionment/well (including surface intake) = $33,050/7 = 4,721.4$ people.
SCWC-F wells draw water from the Jefferson, Lynwood, and Silverado aquifers.

9.17 Southern California Water Company, Southwest

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|------------------------------------|---------------------------|----------------------|
| 1 | 20 | 1,666.7 |

The Southern California Water Company, Southwest (SCWC-SW) operates a blended water supply system that serves approximately 150,000 people. There are 15 active and 3 standby wells in the system. These wells account for 20 % of the total water supply in the system and 80 % purchased from MWD as surface intake. None of their wells contribute more than 40 % groundwater to the system. Only 1 of the wells is located within the 4-mile radius of the Site.

Population apportionment/well = $150,000 \times 0.2 = 30,000/18 = 1,666.7$ people.

SCWC-SW wells draw water from the Jefferson, Lynwood, and the Silverado aquifers.

9.18 City of Pico Rivera Water Department

| No. of Wells W/in 4-mile radius | % Groundwater to Total | Population Served |
|------------------------------------|---------------------------|----------------------|
| 2 | 100 | 7,000 |

The City of Pico Rivera Water Department (PRWD) operates a 100% groundwater supply system that serves approximately 35,000 people. PRWD operates 10 active wells and none of the wells contribute more than 40% groundwater to the system. Only 2 of the wells are within the 4-mile radius of the Site.

Population apportionment/well = 35,000/10 = 3,500 people.
PRWD wells draw water from the Lynwood and the Silverado aquifers.

CHART 6 - 2

Distance-Weighted Population Value

| Distance (miles) | Purveyor | No. of Wells | Population Served | Total | Value (Table 3-12) |
|---------------------|----------|-----------------|----------------------|-----------|-----------------------|
| 0- to 1/4-mile | SGWD | 3 | 44,418.0 | | |
| | HPWD | 1 | 9,212.4 | | |
| | T-349MWC | 1 | 1,200.0 | 54,830.4 | 52,137 |
| 1/4 to 1/2-mile | -- | 0 | 0 | 0 | 0 |
| 1/2- to 1-mile | SGWD | 1 | 14,806.0 | | |
| | T-349MWC | 1 | 6,300.0 | | |
| | SCWC-B | 1 | 2,706.6 | 23,812.6 | 5,224 |
| 1- to 2-mile | HPWD | 1 | 9,212.4 | | |
| | SCWC-B | 3 | 8,119.8 | | |
| | T-180MWC | 2 | 14,000.0 | | |
| | DWD | 2 | 9,333.4 | | |
| | LWD | 2 | 16,871.8 | 57,537.4 | 9,385 |
| 2- to 3-mile | SGWD | 2 | 29,612.0 | | |
| | HPWD | 3 | 27,637.2 | | |
| | SCWC-B | 4 | 10,826.4 | | |
| | DWD | 9 | 42,000.3 | | |
| | LWD | 5 | 42,179.5 | | |
| | MWC#1 | 2 | 3,333.4 | | |
| | MWC#2 | 2 | 1,340.0 | | |
| | MWC#3 | 3 | 4,749.9 | | |
| | WPMWC | 2 | 12,000.0 | 173,678.7 | 21,222 |
| 3- to 4-mile | CWD | 2 | 9,285.8 | | |
| | PWD | 1 | 5,520.0 | | |
| | DWD | 7 | 32,666.9 | | |

| | | | | | |
|--|----------|---|----------|-----------|--------|
| | CWSC-ELA | 7 | 16,911.3 | | |
| | VWD | 4 | 18,000.0 | | |
| | SCWC-F | 6 | 28,328.4 | | |
| | SCWC-SW | 1 | 1,666.7 | | |
| | PRWD | 2 | 7,000.0 | 119,379.1 | 13,080 |

Total distance-weighted population value = 101,048

Potential Contamination Factor Value (PC) = $101048/10 = 10,104.8$

Sources: Hernandez, Ramiro, City of South Gate Water Department, Letter to Jose Marcos, DTSC, November 30, 2000.

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Arcia, Dante, Tract 349 Mutual Water Company, Conversation recorded in Contact Report by Jess Villamayor, DTSC, March 7, 2000.

Aceves, Hank, Southern California Water Company, Letter to Greg Holmes, DTSC, October 24, 2000.

Owens, Tony, City of Compton Water Department, Conversation recorded in Contact Report by Alberto Valmidiano, DTSC, April 9, 2001.

Long, Randall, Tract 180 Water Company, Letter to Jose Marcos, DTSC, November 3, 2000.

Dela Rosa, Rudy, City of Paramount Water Department, Conversation recorded in Contact Report by Alberto Valmidiano, DTSC, April 9, 2001.

Mayfield, Greg, City of Downey Water Department, Conversation recorded in Contact Report by Alberto Valmidiano, DTSC, April 9, 2001.

Nguyen, Van, City of Lynwood Water Department, Fax Letter to Alberto Valmidiano, DTSC, April 10, 2001.

Jewett, Monte, Maywood Mutual Water Company #1, Conversation recorded in Contact Report by Alberto Valmidiano, DTSC, April 23, 2001.

Curiel, Linda, Maywood Mutual Water Company #2, Conversation recorded in Contact report by Alberto Valmidiano, DTSC April 23, 2001.

Rohlf, Robert, Maywood Mutual Water Company #3, Letter to Greg Holmes, DTSC, October 16, 2000.

Adney, Kent, Southern California Water Company- ELA, Conversation recorded in Contact report by Jess Villamayor, DTSC April 13, 2000.

Viramontes, Eddie, Walnut Park Mutual Water Company, Fax Letter to Jose Marcos, DTSC, December 1, 2000.

Rigg, Scott, City of Vernon Water Department, Letter to Edwin Lowry, DTSC, October 26, 2000.

Cohen, Koby, Southern California Water Company – Southwest District, Fax Letter to Stephen Cutts, January 11, 2001.

10) A Resources Factor Value of 5.0 is assigned because groundwater from the aquifer being evaluated does fit some of the criterion in Section 3.3.3 of the HRS.

11) There are currently no Wellhead Protection Areas in California.